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AMENDED CLAIM SET:

1. (currently amended) An enhanced T-gate comprising:

a free T-gate, said free T-gate having a neck portion, said neck portion having a height, and a T-bar portion, said T-bar portion having overhangs extending beyond said neck portion by a first width; and

an insulator layer disposed on each side of said neck portion, forming a sandwich structure with said neck portion along a width direction of said free T-gate, and wherein said insulator layer only partially filling up a volume defined therebetween said overhangs and a surface on which said free T-gate is standing, wherein in said sandwich structure said insulator layer having approximately a C-shape, conformally adhering to a bottom surface of said overhangs, to said neck portion, and to said surface on which said free T-gate is standing, said insulator layer having a thickness which is less than half of said height of said neck portion, wherein said insulator layer covering said surface on which said free T-gate is standing and said bottom surface of said overhang to a distance from said neck portion substantially equal to said first width, whereby that part of said volume which is inside said C-shape is not filled by said insulator layer.

- 2. (canceled)
- 3. (canceled)

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	the simulated 1-gate of claim 1, wherein said insulator layer is a low-k
2	material.
1	5. (original) The enhanced T-gate of claim 4, wherein said low-k material is a compound
2	of materials selected from the group consisting of SiCO, SiCOH, SiCH, these silicon
3	containing materials with Si up to 100% replaced by Ge and these silicon containing
4	materials further containing atoms of materials selected from the group consisting of N
5	and F.
1	6. (original) The enhanced T-gate of claim 4, wherein said low-k material is selected from
2	the group consisting of diamond-like carbon, fluorinated amorphous carbon, insulating
3	inorganic oxides, inorganic polymers, organic polymers, photosensitive organic materials
4	fluorinated organic materials, other carbon-containing materials, hybrid organo-inorganic
5	materials and silsesquioxane-based materials.
1	7. (currently amended) A MODFET device comprising an enhanced T-gate, said
2	enchanted enhanced T-gate further comprising:
3	a free T-gate, said free T-gate having a neck portion and a T-bar portion, said T-
4	bar portion having overhangs extending beyond said neck portion; and
5	an insulator layer disposed on each side of said neck portion, forming a sandwich
6	structure with said neck portion along a width direction of said free T-gate, and wherein
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1	said insulator layer only partially filling up a volume defined therebetween said overhang
2	and a surface on which said free T-gate is standing, wherein in said sandwich structure
3	said insulator layer having approximately a C-shape, conformally adhering to a bottom
4	surface of said overhangs, to said neck portion, and to said surface on which said free T-
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6	gate is standing, said insulator layer having a thickness which is less than half of said
7	height of said neck portion, wherein said insulator layer covering said surface on which
,)	said free T-gate is standing and said bottom surface of said overhang to a distance from
	said neck portion substantially equal to said first width, whereby that part of said volume
)	which is inside said C-shape is not filled by said insulator layer.
	8. (original) The MODFET device of claim 7, further comprising a self-aligned
	source/drain metallurgy, wherein a borderline of said metallurgy is defined by said
	insulator layer.
	9. (currently amended) An integrated circuit comprising at least one MODFET device,
	said MODFET device comprising an enhanced T-gate, wherein said enchanted enhanced
	T-gate further comprising:
	a free T-gate, said free T-gate having a neck portion and a T-bar portion, said T-
	bar portion having overhangs extending beyond said neck portion; and
	an insulator layer disposed on each side of said neck portion, forming a sandwich
	structure with said neck portion along a width direction of said free T-gate, and wherein
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•	said insurator layer only partially filling up a volume defined therebetween said overhangs
2	and a surface on which said free T-gate is standing; and
3	a multilevel interconnect structure of low-k interconnect dielectrics.
1	10. (original) The integrated circuit of claim 9, wherein said at least one MODFET
2	further comprising a self-aligned source/drain metallurgy, wherein a borderline of said
3	metallurgy is defined by said insulator layer.
1	11. (canceled)
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2	12. (currently amended) The integrated circuit of claim 11 2, wherein said low-k
3	interconnect dielectrics leaving voids in said volume only partially filled up by said
4	insulator layer.
5	13. (currently amended) The integrated circuit of claim 11 9, wherein said low-k
6	interconnect dielectrics are materials selected from the group consisting of SiCO, SiCOH,
7	SiCH, these silicon containing materials with Si up to 100% replaced by Ge,
8	diamond-like carbon, fluorinated amorphous carbon, insulating inorganic oxides,
9	inorganic polymers and organic polymers.
1	14 30. (canceled)
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